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(54) ELECTRIC DOUBLE-LAYER CAPACITOR AND MANUFACTURE OF ELECTRODE**(57)Abstract:**

PROBLEM TO BE SOLVED: To improve the handling property of components in assembling steps to efficiently manufacture by providing a polymer gel type anhydrous electrolyte layer between polarizable electrodes and using an activated carbon fiber sheet as a base for these electrodes.

SOLUTION: An electric double-layer capacitor is made by setting a fibrous sheet held between polarizable electrodes in a container, pouring an anhydrous electrolyte soln. in the container at a low pressure to impregnate this soln. in the sheet and then dissolving and gelling it. The polarizable electrode pref. uses an activated carbon fiber sheet and more pref. uses an acrylic activated carbon fiber sheet. The specific surface area of the acrylic activated carbon fiber is 500 m²/g or more as measured by the BET method.

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